

RB-Rbs-150

Dynamixel MX-12W Smart Serial Servo



The Dynamixel MX-12W Smart Serial Servo is a robot exclusive smart actuator with fully integrated DC motor, reduction gearhead, controller, driver, network in one DC servo module. MX series is a new concept with advanced functions like precise control, PID control, 360 degree of position control and high speed communication. Advanced durability, degree of precision and wider control zone were achieved thanks to newly applied contactless absolute encoder.

Specifications

- Gear Ratio: 32:1
- Operation voltage: 12V
- Stall current: 0.6A
- No load speed (RPM): 470
- Motor: Cored Motor
- Minimum control angle: About $0.088^\circ \times 4,096$
- Protocol: Half duplex asynchronous serial communication (8bit, 1stop, No Parity)
- Link (physical): TTL level multi drop (daisy chain type connector)
- ID: 254 ID (0~253)
- Baud rate: 8000bps ~ 4.5Mbps
- Feedback functions: Position, temperature, load, input voltage etc.
- Position sensor: Contactless absolute encoder
- Operating voltage: 10~14.8V
- Operating temperature: $-5^\circ\text{C} \sim 80^\circ\text{C}$
- Command signal: Digital packet

Dimensions

- Size: 32mm x 50mm x 40mm
- Weight: 54.6g

Operating Range

- Actuator mode: 360°
- Wheel mode: Endless turn

Material

- Case: Engineering Plastic
- Gear: Engineering Plastic

Default Settings

- ID: 1
- Baud rate: 1Mbps